WATER SUPPLY OUTLOOK FOR IDAHO

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1971

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbis Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OREG. 1970

WATER SUPPLY OUTLOOK FOR IDAHO

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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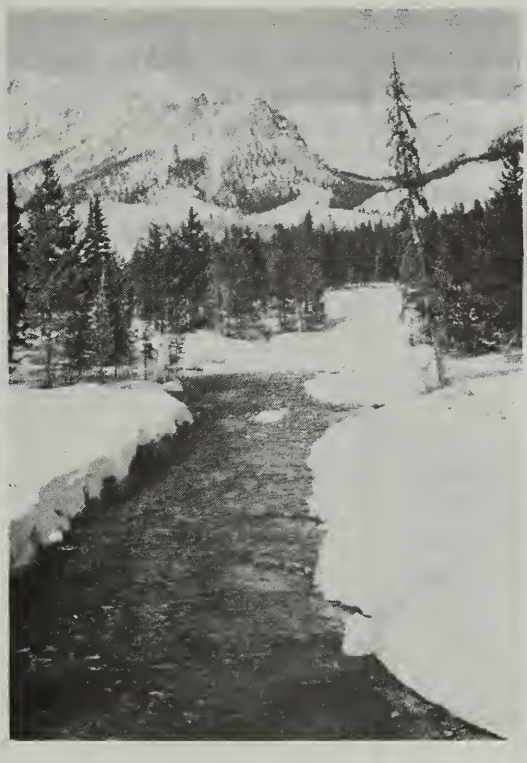
USDA-SCS-PORTLAND, ORE. 1970 M-3151

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY - MAY 1, 1971

Snowfall and precipitation at high elevations remained fairly close to normal throughout April. The northern and far eastern portions of Idaho received above normal precipitation and snow while the southwestern areas were slightly below for the month.

Snowmelt progressed normally, but the extremely heavy snowpack at low elevations in the foothill areas remains. This poses a special hazard on practically all of the major rivers in southern Idaho. Many of the streams near the end of the month were either at flood stage or rising rapidly. The major problem areas still remain, such as the Big Wood, the Big Lost, the Payette Rivers, and all small streams without adequate storage facilities.

The orderly snowmelt to date has been beneficial, but the various river drainages remain in critical condition because of the heavy snowpack and are unusually sensitive to spring rains or warm weather.

Water users in general throughout the state with small reservoirs are advised to take special precautions to see that spillways are cleared and other precautions taken to handle excess water after filling.

The five-day weather forecast indicates shower activity followed by a cooling trend. These conditions would continue the orderly melt to date but would not eliminate high water potentials on the rivers.

Soil moisture conditions at the valley elevations are drying out. On the south slopes below 7,000 feet the soils are bear and also drying out. However, on the north slopes and near our snow courses at low elevations, the soils are still saturated.

Excellent forage production is assured in the valley and foothill elevations because of the excellent snow cover and rainfall that occurred this winter. Growing conditions have been the best for many years.

RESERVOIR STORAGE (1,000 Ac. Ft.)

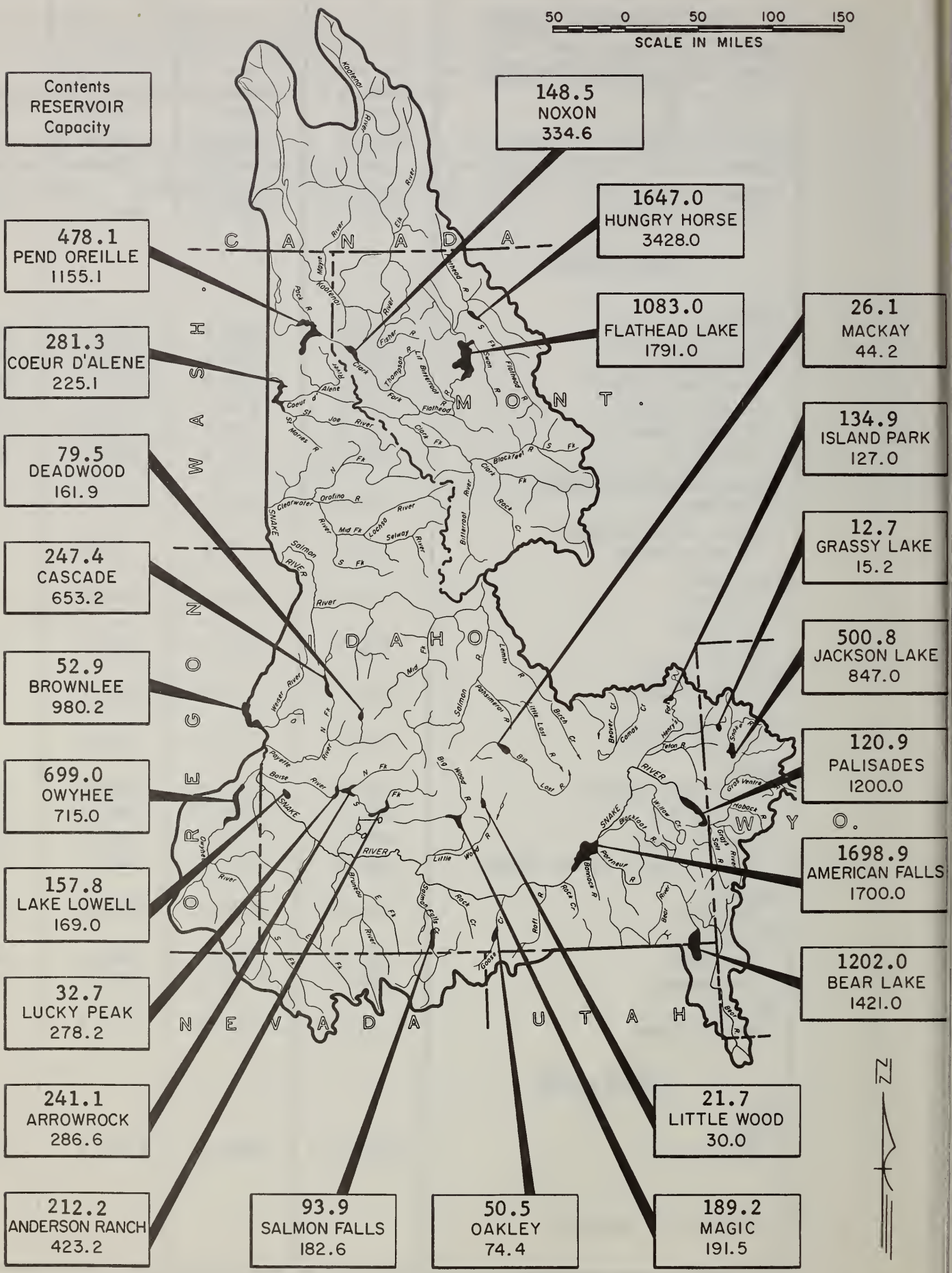
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1953-67 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	1647.0	1752.0	1974.0*
Flathead	1791.0	1083.0	752.8	933.7
Pend Oreille	1155.1	478.1	434.2	493.8
Noxon	334.6	148.5	58.9	144.9*
Spokane				
Coeur d'Alene	225.1	281.3	149.5	286.6
SNAKE BASIN				
Snake				
Jackson Lake	847.0	500.8	621.3	438.8
Palisades	1200.0	120.9	868.9	803.4*
American Falls	1700.0	1698.9	1713.5	1664.3
Island Park	127.0	134.9	133.8	133.1
Grassy Lake	15.2	12.7	9.4	11.5
Brownlee	980.2	52.9	404.9	515.2*
Goose-Trapper Creeks				
Oakley	74.4	50.5	25.9	24.3
Salmon Falls Creek				
Salmon Falls	182.6	93.9	51.6	46.9
Big Lost				
Mackay	44.2	26.1	40.2	33.5
Big Wood				
Magic	191.5	189.2	191.5	167.7
Little Wood				
Little Wood	30.0	21.7	28.1	21.5*
Fish Creek				
Carey Valley	14.4	14.1	12.9	--
Boise				
Anderson Ranch	423.2	212.2	264.2	284.4
Arrowrock	286.6	241.1	280.2	230.7
Lucky Peak	278.2	32.7	93.3	147.3*
Lake Lowell (Deer Flat)	169.0	157.8	165.8	156.3
Owyhee				
Owyhee	715.0	699.0	696.6	531.9
Payette				
Cascade	653.2	247.4	307.2	327.8
Deadwood	161.9	79.5	96.1	89.1
Weiser				
Mann Creek	11.1	11.3	11.1	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1202.0	1151.3	951.9

* Period of Record.

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1971



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
UPPER COLUMBIA BASIN						
KOOTENAI RIVER						
Leonia	(at)	9300	111	May-Sep	5868	8397
		8120	112	May-Jul	5026	7271
		6350	112	May-Jun	4111	5662
PEND OREILLE RIVER						
Clark Fork River						
Whitehorse Rapids	(at)	15300	124	May-Sep	--	12313
		14040	126	May-Jul	--	11112
		11700	126	May-Jun	--	9278
Priest River						
Priest River 1/	(nr)	800	111	May-Jul	--	721
SPOKANE RIVER						
Post Falls 2/	(at)	2400	114	May-Sep	2240	2110
Coeur d'Alene River						
Cataldo	(nr)	920	112	May-Sep	863	820
		850	112	May-Jul	--	762
St. Joe River						
Calder	(at)	1150	111	May-Sep	1110	1040
		1080	111	May-Jul	--	974
SNAKE RIVER BASIN						
SNAKE RIVER - MAIN STEM						
Moran 3/	(at)	1175	147	May-Sep	863	800
Heise 4/	(nr)	5300	155	May-Sep	3850	3410
Blackfoot 5/	(nr)	5460	155	May-Jul	--	3521
Weiser	(at)	7500	150	May-Sep	6140	5002
Henrys Fork						
Ashton 6/	(nr)	650	127	May-Sep	--	513
Rexburg 7/	(nr)	1400	127	May-Sep	--	1100
Teton River						
St. Anthony	(nr)	480	135	May-Sep	--	353
Blackfoot River						
Blackfoot Reservoir Inflow		160	157	Apr-Sep	--	102*

*1948-1962 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

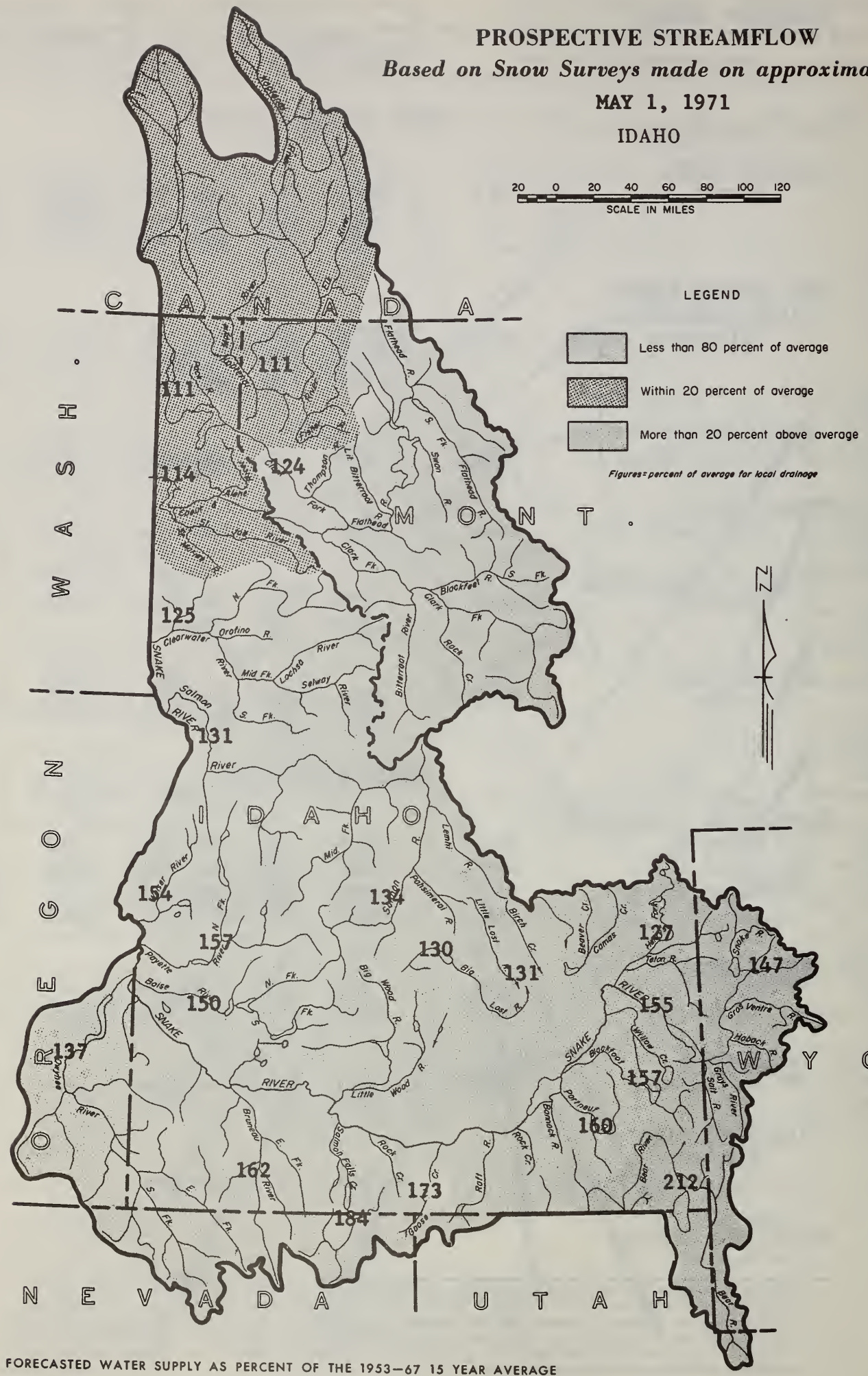
+ 1953-1967 period.

PROSPECTIVE STREAMFLOW

Based on Snow Surveys made on approximately

MAY 1, 1971

IDAHO



FORECASTED WATER SUPPLY AS PERCENT OF THE 1953—67 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Portneuf River						
Topaz	(at)	90	160	May-Sep	--	56.2
Oakley Reservoir Inflow		27	173	May-Sep	--	15.6
Salmon Falls Creek						
San Jacinto	(nr)	85	184	May-Sep	--	46.3
		82	191	May-Jul	--	43.0
Bruneau River						
Hot Springs	(nr)	230	162	May-Sep	--	142
Little Lost River						
Howe	(nr)	40	131	May-Sep	--	30.6
Big Lost River						
Howell Ranch	(at)	240	130	May-Sep	--	186
		180	130	May-Jun	--	128
Mackay 1/	(nr)	210	132	May-Sep	189	159
Big Wood River						
Magic Reservoir		320	174	May-Sep	--	184
Inflow 2/		278	173	May-Jul	--	161
Little Wood River						
High Five Creek	(ab)	90	142	May-Sep	--	63
Boise River						
Twin Springs	(nr)	890	150	May-Sep	715	594
		815	150	May-Jul	--	542
Boise 3/	(nr)	1850	150	May-Sep	1470	1230
South Fork						
Anderson Dam 4/	(at)	720	154	May-Sep	--	468
Owyhee River						
Gold Cr., Nev. 5/	(nr)	12	150	May-Jul	--	8
Owyhee, Nev. 5/	(nr)	50	131	May-Jul	87	38
Lake Owyhee		246	137	May-Sep	255	179
net inflow 6/		225	141	May-Jul	233	160
Jordan Creek						
Lone Tree Creek	(ab)	66	138	May-Jul	--	48.3*

*1955-1967 Average

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir 2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

+ 1953-1967 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average +
Payette River						
Horseshoe Bend 1/	(nr)	2370	157	May-Sep	1880	1510
Banks 2/	(nr)	1280	157	May-Jul	--	816
North Fork						
Cascade 3/	(at)	725	158	May-Sep	587	458
Banks 3/	(nr)	910	159	May-Sep	--	574
Weiser River						
Weiser ab. Crane Creek 4/		410	154	May-Sep	--	267
Salmon River						
Whitebird	(at)	8100	131	May-Sep	7030	6190
Challis	(nr)	1100	134	May-Sep	--	824
		950	134	May-Jul	--	710
Clearwater River						
Spalding	(at)	8500	125	May-Sep	7090	6824
GREAT BASIN						
BEAR RIVER						
Harer	(at)	330	212	May-Jul	--	156
Montpelier Creek						
Montpelier	(nr)	19	207	May-Sep	--	8.7
Cub River						
Preston	(nr)	78	178	May-Sep	--	43.7*

* 1956-1967 Average.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1953-1967 period.

VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Spring April 1971		Fall - Winter Nov. 70 - Mar. 71	
	Observed	Departure 2/	Observed	Departure 2/
Kootenai, Canada & U. S.	1.78	+0.22	16.13	+2.01
Flathead	1.19	-0.54	12.18	+2.10
Clark Fork	1.34	+0.26	4.37	-0.10
Pend Oreille-Spokane	2.35	+0.02	19.87	+1.62
Upper Snake	2.23	+0.44	13.81	+3.78
Snake River Plain	1.69	+0.70	6.30	+1.99
Salmon-Payette-Boise	0.88	-0.83	16.05	+4.92
Clearwater	2.51	-0.31	14.38	+0.77
Owyhee-Malheur	0.55	-0.32	7.44	+2.26

1/ Preliminary analysis and data by the National Weather Service and Meterological Service of Canada.

2/ Departure from 15-year (1953-67) drainage division average.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) LAST YEAR	WATER CONTENT (Inches) AVERAGE [b]
UPPER COLUMBIA RIVER BASIN							
KOOTENAI RIVER							
Smith Creek	16A1	4800	4/26	127	54.9	37.9	49.4
PEND OREILLE - PRIEST RIVER							
Benton Meadow	16A2	2344	4/29	0	0.0	0.0	0.0
Benton Spring	16A3	4900	4/29	40	16.7	20.6	17.1
Schweitzer Bowl	16A6	4500	4/28	71	34.0	29.3	--
Schweitzer Ridge	16A5	6100	4/28	128	58.5	43.3	--
SPOKANE RIVER							
Copper Ridge	16B2	4800	4/29	57	26.2	31.2	27.8
#Forty-nine Meadows	15B3	5000	4/26	95	45.8	34.2	30.6*
Fourth of July Summit	16B3	3100	4/30	0	0.0	0.0	--
Granite Peak	15B13	6000	4/26	144	63.8	47.4	--
Lookout	15B2	5250	4/30	104	44.5	42.4	36.7
#Lost Lake	15B14	6000	4/26	177	82.0	58.0	62.7*
Lower Sands Creek	16B1	3400	4/29	49	20.6	19.9	14.6
Medicine Ridge	15B4	6150	4/26	147	63.0	45.8	--
Outlaw Creek	15B12	3750	4/26	0	0.0	T	8.0*
Sherwin	16C1	3200	5/1	20	8.2	9.4	--
LOWER SNAKE RIVER BASIN							
PALOUSE RIVER							
Crumarine Creek	16C6	3340	5/1	0	0.0	0.0	0.0*
East Twin	16C3	4050	5/1	0	0.0	6.0	2.1*
Howard Creek	16C5	3450	5/1	0	0.0	0.0	0.0*
Moscow Mountain	16C2	4400	5/1	40	18.6	21.0	11.6*
West Twin	16C4	4250	5/1	0	0.0	5.3	0.0*
CLEARWATER RIVER							
Buck Meadows	15D5	5600	4/29	82	36.6	44.2	--
Cayuse Airstrip	15C3	3700	4/26	0	0.0	0.0	0.9*
Coolwater Mountain	15C7	6200	5/1	101	44.8	45.2	30.6*
Coolwater Mtn. (R)	15C7	6200	4/26	--	45.7	50.2	--
Coolwater Mtn. (SP)	15C7	6200	4/26	--	40.1	41.3	--
Coolwater Mtn. (SP)	15C7	6200	5/1	--	38.7	41.3	--
Crater Meadows	15C9	6100	4/26	124	58.4	48.0	47.2*
Elk Butte	16C15	5550	4/26	107	47.2	41.1	35.8*
Fish Lake Airstrip	15C2	5000	5/1	116	54.0	45.2	42.2*
Forty-nine Meadows	15B3	5000	4/26	95	45.8	34.2	30.6*
#Granite Peak	15B13	6000	4/26	144	63.8	47.4	--
Hemlock Butte	16C6	5500	4/26	150	65.0	54.4	53.9*

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE [b]
Hemlock Butte (SP)	16C6	5500	4/26	--	74.6	59.7	--
#Hoodoo Basin Mont.	15C10	6000	4/27	146	68.8	56.5	--
#Hoodoo Basin(SP)Mont.	15C10	6000	5/1	--	69.9	56.2	--
#Hoodoo Creek Mont.	15C1	5900	4/27	143	66.1	53.2	52.0*
Lolo Pass	14C5	5230	4/26	89	39.9	34.6	32.7*
Lost Lake	15B14	6000	4/26	177	82.0	58.0	62.7*
#Medicine Ridge	15B4	6150	4/26	147	63.0	45.8	--
Mountain Meadows	15D6	6300	4/29	75	33.0	36.0	--
#Nez Perce Pass Mont.	14D1	6575	4/26	56	21.3	21.8	13.9
Orogrande Mountain	15D4	7800	4/28	129	51.8	54.8	48.0*
Orogrande Mtn. (R)	15D4	7800	5/3	--	50.8	51.9	--
Pierce R. S.	15C5	3170	5/1	1	0.2	0.2	1.9*
Powell R. S.	14C6	4230	4/26	0	0.0	0.0	--
Savage Pass	14C4	6600	4/27	88	36.2	29.9	--
Shanghai Summit	15C4	4600	4/26	64	27.8	29.6	24.0*
SALMON RIVER							
Big Creek Summit	15E2	6600	4/29	112	49.0	41.2	36.1
#Boulder Creek	16D1	5500	4/29	58	28.0	19.5	15.9*
Brundage Mountain	16D6	7560	4/29	146	67.5	59.2	--
#Deadwood Summit	15E4	7000	4/29	146	67.7	--	46.3*
#Galena Summit	14F12	8795	4/30	90	38.0	28.2	24.5
#Gibbons Pass Mont.	13D2	7100	4/28	81	33.7	29.0	23.1
Mill Creek Summit	14E1	8870	4/29	84	34.1	25.5	--
Morgan Creek	14E4	7580	4/30	53	20.3	18.6	14.2*
#Rock Flat Summit	16E1	5200	4/30	55	23.5	20.1	15.7*
Lemhi River							
Above Gilmore	13E19	8200	4/28	51	14.9	14.9	--
Meadow Lake	13E18	9100	4/28	84	29.7	25.6	--

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
SPOKANE RIVER							
Fourth of July Summit	3100	48	11.6	4/30	10.2	10.4	10.3
Lookout	5250	48	11.0	4/30	9.2	7.7	8.6
SALMON RIVER							
Mill Creek Summit	8870	48	8.4	4/29	5.5	4.4	6.8
Lemhi River							
Above Gilmore	8200	60	5.4	4/28	2.9	2.4	--
Meadow Lake	9100	48	4.4	4/28	2.4	2.0	--

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE b
MIDDLE SNAKE RIVER BASIN - NORTHSIDE							
LITTLE LOST RIVER							
Wet Creek Summit	13E7	7600	4/29	50	17.6	13.0	--
BIG LOST RIVER							
White Knob	13F1	7700	4/29	36	11.5	12.1	7.6*
LITTLE WOOD RIVER							
Garfield Rgr. Sta.	13F4	6554	5/3	4	1.7	--	2.2*
Muldoon	13F5	6300	5/3	0	0.0	--	0.1*
Swede Peak	13F9	7500	5/3	48	20.8	--	14.6*
BIG WOOD RIVER							
#Couch Summit	14F10	6950	4/29	64	28.5	19.0	11.4*
Galena	14F1	7300	4/30	57	24.2	21.6	14.6
Galena Summit	14F12	8795	4/30	90	38.0	28.2	24.5
Graham Ranch	14F5	6200	5/4	22	9.5	8.4	--
Mount Baldy	14F9	9000	5/5	70	29.2	20.2	21.8
Soldier Rgr. Sta.	14F11	6100	4/29	5	2.1	0.0	--
BOISE RIVER							
Atlanta Summit	15F4	7500	4/29	118	49.7	37.7	35.4*
Bad Bear	15F2	5500	4/30	17	7.3	10.6	4.1*
#Bogus Basin	16F2	6120	5/3	70	33.7	35.3	22.0
Bogus Basin Road	16F4	5360	5/3	0	0.0	0.0	0.0*
Couch Summit	14F10	6950	4/29	64	28.5	19.0	11.4*
Moores Creek Summit	15F1	6100	4/30	99	44.4	36.3	29.7
#Soldier Rgr. Sta.	14F11	6100	4/29	5	2.1	0.0	--
Trinity Mountain	15F5	7780	4/30	133	61.2	48.1	42.9*
PAYETTE RIVER							
#Big Creek Summit	15E2	6600	4/29	112	49.0	41.2	36.1
Bogus Basin	16F2	6120	5/3	70	33.7	35.3	22.0
#Brundage Mountain	16D6	7560	4/29	146	67.5	59.2	--
Cozy Cove	15E8	5900	4/27	48	21.7	17.7	8.6
Crawford Rgr. Sta.	15E3	4800	4/29	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/27	36	17.5	15.6	6.4*
Deadwood Dam	15E7	5290	4/27	40	19.0	15.9	11.2
Deadwood Summit	15E4	7000	4/29	146	67.7	--	46.3*
Rock Flat Summit	16E1	5200	4/30	55	23.5	20.1	15.7*

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) LAST YEAR	WATER CONTENT (Inches) AVERAGE [b]
WEISER RIVER							
Boulder Creek	16D1	5500	4/29	58	28.0	19.5	15.9*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
LITTLE LOST RIVER							
Fairview Guard Station	5850	42	7.6	3/31	8.1	--	8.5
Wet Creek Summit	8175	48	17.1	4/29	15.0	13.2	--
BIG WOOD RIVER							
Galena	7300	48	10.1	5/1	8.6	6.5	9.8
Galena Summit	8795	48	5.8	5/1	Frozen	5.0	4.8
BOISE RIVER							
Bogus Basin Road	4830	48	7.1	5/3	5.6	5.7	5.7

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE [b]	
MIDDLE SNAKE RIVER BASIN - SOUTHSIDE								
RAFT RIVER								
Howell Canyon	13G1	8000	4/28	90	37.5	41.5	--	
GOOSE CREEK								
Badger Gulch	14G3	6660	4/27	29	11.4	16.6	--	
SALMON FALLS CREEK								
#Bear Creek (A) Nev.	15H1	7800	4/29	62	23.8	26.3	19.4*	
Cedar Creek (A)	14G5	7000	4/29	21	9.1	10.1	2.1*	
Deadline	14G4	6900	4/29	69	30.0	33.6	18.1*	
Goat Creek Nev.	15H13	8800	4/28	80	29.7	27.2	18.2*	
#Hummingbird Spgs. Nev.	15H15	8945	4/28	103	38.0	38.5	22.8*	
Magic Mountain	14G2	6700	4/29	56	24.0	25.8	14.5*	
#Pole Creek R. S. Nev.	15H14	8330	4/28	83	31.9	30.0	21.6*	
Red Point (A) Nev.	15H18	7940	4/29	39	15.0	20.3	9.0*	
Wilson Creek (A)	15G2	7500	4/29	28	10.8	13.2	--	
BRUNEAU RIVER								
Bear Creek (A) Nev.	15H1	7800	4/29	62	23.8	26.3	19.4*	
Hummingbird Spgs. Nev.	15H15	8945	4/28	103	38.0	38.5	22.8*	
Pole Creek R. S. Nev.	15H14	8330	4/28	83	31.9	30.0	21.6*	
OWYHEE RIVER								
#Bear Creek (A) Nev.	15H1	7800	4/29	62	23.8	26.3	19.4*	
Silver City	16F3	6400	Delayed			20.5	6.7*	
South Mountain	16G1	6340	5/3	9	4.3	15.2	--	

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
RAFT RIVER							
Conner Pass	5700	36	9.8	4/28	9.4	9.2	8.7
Howell Canyon	8000	48	11.5	4/28	10.4	6.3	10.9
GOOSE CREEK							
Badger Gulch	6660	36	7.0	4/27	7.3	6.4	6.5
SALMON FALLS CREEK							
Deadline	6900	36	7.4	4/29	7.5	7.4	7.7
Patrick Ranch	5720	36	7.7	4/28	8.6	6.6	6.3
Pole Creek R. S.	8330	48	9.7	4/28	9.3	7.7	8.0

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE [b]
UPPER SNAKE RIVER BASIN							
HENRYS FORK RIVER							
Big Springs	11E9	6500	4/29	56	27.5	24.5	17.0*
Grassy Lake Wyo.	10E15	7230	5/1	104	50.5	42.6	32.6
Island Park	11E10	6315	4/29	39	17.5	18.4	9.7*
Sawtelle Mountain	11E32	8715	4/29	129	53.5	41.4	--
Targhee Pass	11E34	7000	4/29	59	24.2	17.8	--
Valley View	11E8	6500	4/29	52	24.5	16.7	13.0*
TETON RIVER							
Darby Canyon (A)	10F21	8250	5/1	80	34.7	30.7	--
Freds Mountain	10F22	8000	4/30	92	40.0	34.4	--
Pine Creek Pass	11F2	6750	4/30	46	20.5	24.7	11.0*
State Line	11F1	6400	4/30	37	15.7	20.3	8.5

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	PROFILE (Inches) CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
HENRYS FORK RIVER							
Island Park	6315	48	9.9	4/29	9.2	8.2	9.9
Valley View	6500	48	13.3	4/29	11.8	12.6[a]	13.2
TETON RIVER							
Pine Creek Pass	6750	48	13.3	4/30	14.5	12.2	14.9
State Line	6400	48	14.8	4/30	15.3	12.8	15.2
Teton Pass	8500	48	10.5	3/31	10.4	6.9	11.5
PORTNEUF RIVER							
Lower Dempsey	5210	48	18.7	3/29	21.0	--	--
Lower Pebble	5800	36	7.6	3/30	8.5	--	--
Pebble Creek	6550	48	7.2	3/30	6.5	--	--

a April Measurement

*(b) 1953-67, 15 year period. # Not located directly on this drainage. * Estimated 1953-67, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.*

SNOW

DRAINAGE BASIN and SNOW COURSE NAME	NO.	ELEVATION	CURRENT INFORMATION: DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	PAST RECORD: WATER CONTENT (Inches) LAST YEAR	AVERAGE [b]
GREAT BASIN							
BEAR RIVER							
Emigrant Summit	11G6	7350	4/28	88	38.6	27.9	21.5*
Montpelier Creek							
Giveout	11G16	6840	4/28	35	14.7	--	--
Little Beaver	11G20	6970	4/28	44	19.6	--	--
Whiskey Flat	11G21	6985	4/28	23	9.8	--	--
Mink Creek							
Christensen Ranch	11G11	5600	4/29	0	0.0	0.4	0.0*
#Emigrant Summit	11G6	7350	4/28	88	38.6	27.9	21.5*
Liberty Spring	11G13	8600	4/30	151	61.8	42.3	39.4*
Strawberry Creek	11G9	5800	4/29	12	4.3	5.7	2.1*
Strawberry Mink Divide	11G10	6800	4/30	64	29.0	21.5	14.1*
Cub River							
Cub River R. S.	11G12	5400	4/29	0	0.0	0.8	0.0*
Willow Flat	11G4	6100	4/29	18	6.2	9.7	3.3*

SOIL MOISTURE

STATION NAME	ELEVATION	PROFILE (Inches) DEPTH	PROFILE (Inches) CAPACITY	SOIL MOISTURE (Inches) DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
BEAR RIVER							
Emigrant Summit	7350	36	8.2	4/28	7.3	7.1	6.4
Strawberry Creek	5800	48	12.7	4/28	12.9	10.6	12.6
Montpelier Creek							
Giveout Pass	7025	36	9.4	4/28	7.6	4.2[a]	7.7
Jenson Ranch	6580	48	18.7	4/28	17.9	10.8[a]	--

a April Measurement

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and Water Resources, British Columbia
Department of Resources and Development, Water Resources Division

States:

Idaho State Department of Water Administration
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
Agricultural Research Service

U. S. Department of Commerce
Environmental Sciences Service Administration, Weather Bureau

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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